

Title (en)
Amplification apparatus

Title (de)
Verstärkungsvorrichtung

Title (fr)
Appareil d'amplification

Publication
EP 2816726 A1 20141224 (EN)

Application
EP 14170130 A 20140527

Priority
JP 2013127856 A 20130618

Abstract (en)
An outphasing amplification apparatus includes: a signal decomposition unit for decomposing an input signal into a first signal and a second signal having predetermined amplitude values, respectively; a first amplification element for amplifying the first signal, and output a first amplification signal; a second amplification element for amplifying the second signal, and output a second amplification signal; and a combiner for combining the first amplified signal and the second amplified signal, wherein the combiner includes a first input transmission line having an impedance converter, a second input transmission line not having an impedance converter, and a combination unit configured to combine a signal produced by the first amplification signal passing through the first input transmission line to have been subjected to impedance conversion by the impedance converter, and a signal produced by the second amplification signal passing through the second input transmission line not having been subjected to impedance conversion.

IPC 8 full level
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CPC (source: EP US)
H03F 1/0294 (2013.01 - EP US); **H03F 1/3247** (2013.01 - EP US); **H03F 3/193** (2013.01 - US); **H03F 3/68** (2013.01 - US); **H03F 2200/451** (2013.01 - US)

Citation (applicant)
• JP 2009213090 A 20090917 - JAPAN RADIO CO LTD
• JP 2007174148 A 20070705 - HITACHI INT ELECTRIC INC
• JP 2006314087 A 20061116 - MATSUSHITA ELECTRIC IND CO LTD
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Citation (search report)
• [X] EP 1583228 A2 20051005 - ERICSSON TELEFON AB L M [SE]
• [X] RAMON BELTRAN ET AL: "High-efficiency outphasing transmitter using class-E power amplifiers and asymmetric combining", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol. 51, no. 12, 1 December 2009 (2009-12-01), pages 2959 - 2963, XP055135105, ISSN: 0895-2477, DOI: 10.1002/mop.24758

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Designated extension state (EPC)
BA ME

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DOCDB simple family (application)
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